

Attachment A

Departure from Specification (DFS)

Laboratory Testing Plan

Parts 1 and 2

1/20/2012

System No.	Primer	Midcoat	Topcoat	# of Panels
1	MIL-DTL-24441 Type IV F150 @4-6 mils	MIL-DTL-24441 Type IV F151 @4-6 mils	-	4
2	Interbond 998 @6-8 mils	Interbond 998 @10-12 mils	-	4
3	Intergard 264 @4-6 mils	Intergard 264 @4-6 mils	-	4
4	Seaguard 5000HS @4-6 mils	Seaguard 5000HS @4-6 mils	-	4
5	Fast Clad Primer @4-8 mils	Fast Clad ER @16-20 mils	-	4
6	MIL-DTL-24441 Type IV F150 @4-6 mils	MIL-DTL-24441 Type IV F151 @4-6 mils	MIL-PRF-24635 Silicone Alkyd @2-3 mils	4
7	Interbond 998 @6-8 mils	Interbond 998 @10-12 mils	Interfine 979 @5-8 mils	4
8	Intergard 264 @4-6 mils	Intergard 264 @4-6 mils	Interfine 979 @5-8 mils	4
9	Seaguard 5000HS @4-6 mils	Seaguard 5000HS @4-6 mils	PXLE 80 @5-8 mils	4

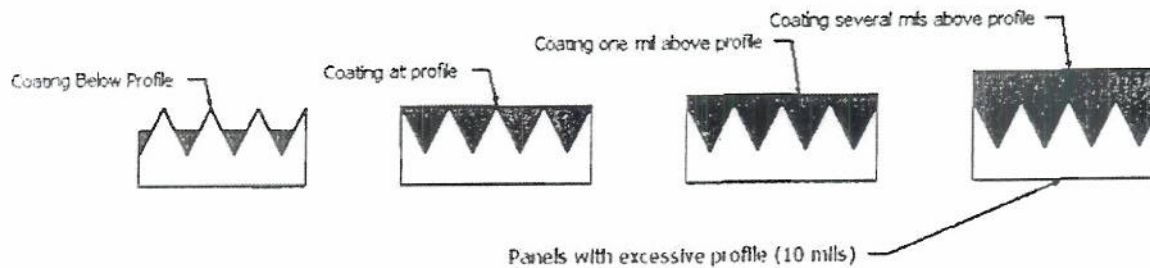
7. All panels shall have the edges recoating with International Interbond 998.
8. All final DFT's shall be taken and recorded.
9. The panels shall be labeled on the backside with a permanent marker with the system name and panel number. For instance, the first panel sprayed with system 2 shall be labeled 2-1. The second panel sprayed with system 2 shall be labeled 2-2, and so-on.
10. All panels shall be allowed to cure for 5 days. Panels shall then be individually wrapped in paper, packed and shipped to NRL Key West.

Part 2: High Surface Profile/High Film Thickness: This will be a comparative performance test of different nonskid primers over a panel blasted to excessive millage.

1. For each of 8 coating systems 7 panels will be fabricated (56 panels in total). These panels will be 6" x 12" x 1/4" cold rolled carbon steel. The panels will be solvent wiped to SSPC SP-1.
2. Each panel will be excessively blasted close to a 10 mil profile. Profile readings shall be taken using a profilometer for each panel and recorded.
3. The backside and edges of all panels will be coated with International Interbond 998.

System No.	Primer	Topcoat	Total Panels
1	AST MS-7CZ	-	7
2	AST MS-8CZ	-	7
3	Intergard 264	-	7
4	Interbond 998	-	7
5	AST MS-7CZ	AST Non-Skid	7
6	AST MS-8CZ	AST Non-Skid	7
7	Intergard 264	AST Non-Skid	7
8	Interbond 998	AST Non-Skid	7

4. For each set of seven panels, a specific primer shall be applied by spray per the above test matrix to the measured WFT/target DFT shown below. 4 different film thicknesses will be targeted as shown in the below diagram. Manufacturer's recommendations should be followed for all application conditions, curing time, etc. All panel preparation shall be in accordance with the test matrix. (Image not to scale, enlarged for effect).
- 5.



	WFT 0 mil	WFT 1 mil	WFT 2 mils	WFT 4 mils
System No.	DFT -1 mil	DFT 0 mil	DFT 1 mil	DFT 3 mils
1	1	2	2	2
2	1	2	2	2
3	1	2	2	2
4	1	2	2	2
5	1	2	2	2
6	1	2	2	2
7	1	2	2	2
8	1	2	2	2

6. The applicator shall record all WFT readings and number of coats needed to achieve the targeted WFT/DFT above the 10 mil surface profile.
7. Final DFT readings shall be taken and recorded on all panels.
8. System #5 through #8 shall receive AST Non-skid via roller in accordance with manufacturer recommendations.
9. All panel edges shall be recoated with International Interbond 998.
10. The panels shall be labeled on the backside of the panel with permanent marker with the system number, the final target primer DFT and the panel number of that type. For example, the panel with AST MS-7CZ and AST Non-skid (system 5), with a final target primer DFT of 1 mil shall be labeled either 5-1-1 or 5-1-2 (there are two panels of this kind).
11. All panels shall be allowed to cure for 5 days. Panels shall then be individually wrapped in paper, packed and shipped to NRL Key West.